

TABLE I

PCR Primers for the Assembly of the "Primary" and "Somatic" Antibody Libraries

1st round of amalgamation

1 <sup>st</sup> round of amplification					
	Template				
IA	DP-47	5' (back) primer DVT 3' (forward) primer NNK 3' (forward) primer	GAGGTGCAAGCTGGAGTC (SEQ ID NO: 319) GCCCTTCACGGAGTCTGGTAMNNNTGAGACCCTCCAGCCC (SEQ ID NO: 320) TABHTGAGACCACTCCAGCCGCCCTCACCGAGTCTGGTAABHTGTABHABHABHAA (SEQ ID NO: 321)		
2A	DP-47	5' (back) primer DVT 3' (forward) primer NNK 3' (forward) primer	CGCAGACTCCGTGAAGGGC (SEQ ID NO: 322) TOCCCTGGCCCCAGTAGCTAAAMNNNNNNNNNTGCACACTATAACGG (SEQ ID NO: 323) TOCCCTGGCCCCAGTAGCTAAAABHABHABHABH (SEQ ID NO: 324)		
3A	DPK9	5' (back) primer DVT 3' (forward) primer NNK 3' (forward) primer	GACATCCAGATGACCCAGTC (SEQ ID NO: 325) ATGGGACCCCACMTGCAAMNNNGGATGCMNNNATAGATCAGGAGCTTAGGGG (SEQ ID NO: 326) ATGGGACCCCACTTTGCAABHGGATGCAHJAAGATCAGGAGCTTAGGGG (SEQ ID NO: 327)		
4A	DPK9	5' (back) primer DVT 3' (forward) primer NNK 3' (forward) primer	TTGCAAAGTGGGGTCCCAT (SEQ ID NO: 328) CTTGGTCCCTTGGCGAACCTMNNNAGGMNNNNNNCTGAGCAGTAGTAAAGTTC (SEQ ID NO: 329) CTTGGTCCCTGGCCGAACGTABHAGGABHABHABHCTGTGACAGTAGTAAGTTC (SEQ ID NO: 330)		
1B	DP-47	5' (back) primer DVT 3' (forward) primer NNK 3' (forward) primer	GAGGTGCAAGCTGGAGTC (SEQ ID NO: 331) CTGQAACCTGGGGACCCAMNNNATAMNNNGCTAAAGCTGAATCCAGAC (SEQ ID NO: 332) CTTGAGCCCTGGGGACCCAAACIATABHATAABHGCTAAAGGTQAMTCCAGAG (SEQ ID NO: 333)		
2B	DP-47	5' (back) primer DVT 3' (forward) primer NNK 3' (forward) primer	TGGCTCCGGCAAGGCTCCAG (SEQ ID NO: 334) TCCCTGGCCCCAGTAGTCAAAMNNNNNNNTICGCACAGTAATAACGG (SEQ ID NO: 335) TCCCTGGCCCCAGTAGTCAAAABHABHABHABHCTGTGACAGTAATAACGG (SEQ ID NO: 336)		
3B	DPK9	5' (back) primer DVT 3' (forward) primer NNK 3' (forward) primer	GACATECCAGATGACCCAGTC (SEQ ID NO: 337) CTGGTTCTGCTGATACCAMNNTAAMNNNNNAATGCTCTGACITGCCGG (SEQ ID NO: 338) CTGGTTCTGCTGATACCAABHTAAABHABHAAATGCTGTGACAGTAAGTTC (SEQ ID NO: 339)		
4B	DPK9	5' (back) primer DVT 3' (forward) primer	TGGTATCAGCAGAACCAAGGG (SEQ ID NO: 340) CTTGGTCCCTTGGCGAACCTMNNNAGGGTACTGTAACCTCTGACAGTAGTAAGTTC (SEQ ID NO: 341)		

		NNK 3' (forward) primer	CTTGGTCCCTGGCGAACGTABHAGGGTACTGTAACCTCTGTTACAGTAGTAAAGTTCG (SEQ ID NO: 342)
5A	1A/2A	5' (back) primer 3' (forward) primer	GCCCCGCAACTGGCGCCAGCCGCCATGGCCGAGGTGCAGCTGGAGTC (SEQ ID NO: 343) GAACCGCTCCACCGCTCGAACGGTACCGGTCAA (SEQ ID NO: 344)
6A	3A/4A	5' (back) primer 3' (forward) primer	AGCGGTGGAGGGGTTCAAGCGGGAGGTGGCAGGGACATCCAGATGACCCAGTC (SEQ ID NO: 345) GAGTCATTCTCGACTTGCGGGCCGCCCCGTTGATTTCACCTTGCTCCCTGGCCGAACG (SEQ ID NO: 346)
SB	1B/2B	5' (back) primer 3' (forward) primer	GTCCCTGGCAACTCGGCCAGCCGCCATGGCCGAGGTGCAGCTGGAGTC (SEQ ID NO: 347) GAACCGCTCCACCGCTCGAAGACGGTACCCAGGGTTCCTGGCCCAA (SEQ ID NO: 348)
6B	3B/4B	5' (back) primer 3' (forward) primer	AGCGGTGGAGGGGGTTCAQCGGGAGGTGGCAGGGACATCCAGATGACCCAGTC (SEQ ID NO: 349) GAGTCATTCTCGACTTGCGGGCCGCCGTTGATTTCACCTGGCCCTGGCCGAACG (SEQ ID NO: 350)

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